### Summary of last lecture

- Data
- Information
- Database
- Database Management System
- Functions of Management System
- Applications

# Purpose of Database Systems File-Processing System

- A File processing system is a collection of files and programs that access/modify these files.
- Typically, new **files** and programs are added over time (by different programmers) as new information needs to be stored and new ways to access information are needed.

#### Disadvantages of File Processing System

- Data redundancy and inconsistency
- Difficulty in accessing data
- Data isolation
- Integrity problems consistency constraint
- Atomicity problems atomic
- Concurrent-access anomalies
- Security problems data abstraction

### **Advantage of DBMS**

- Controlling Data Redundancy
- ☐ Sharing of Data
- ☐ Data Consistency
- ☐ Data Integrity
- ☐ Data Security
- Data Independence
- ☐ Backup and Recovery Procedures

## Disadvantage of DBMS

- ☐ Increased costs
- Management complexity
- ☐ Frequent upgrade/replacement cycles
- Database Damage